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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,398	02/21/2002	Zheng Haihong	50072.8US01	1573
38879	7590	11/09/2007		
Nokia c/o DARBY & DARBY P.C. P.O. Box 770 Church Street Station NEW YORK, NY 10008-0770			EXAMINER HAN, CLEMENCE S	
			ART UNIT 2616	PAPER NUMBER
			MAIL DATE 11/09/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/081,398

Applicant(s)

HAIHONG, ZHENG

Examiner

Clemence Han

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 August 2007.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11, 13-17 and 19-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-11, 13, 14 and 25 is/are allowed.
- 6) ☒ Claim(s) 15-17, 20-22 and 24 is/are rejected.
- 7) ☒ Claim(s) 19 and 23 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claim 15-17, 20-22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goguen et al. (US 6,665,273) in view of Reeves et al. (US Pub. 2002/0080794).

Regarding to claim 15, Goguen teaches a router for forwarding packets to a final destination over a Multi-Protocol Label Switching (MPLS) network, comprising: a transceiver for receiving and transmitting each packet of one or more flows of packets from a source to a destination (R's in Figure 2); a labeler 122 for labeling each packet with a label; a pathmaker 120 for assisting in establishing a label switched path along which each packet is forwarded between an ingress router and an egress router of the enhanced Multi-Protocol Label Switching (MPLS) network, wherein the label switched path corresponds to the label of each packet; a reserver for assisting in reserving resources along the label switched path (Column 2 Line 41 – Column 3 Line 5), wherein the reserver further assists in dynamically modifying resources reserved along the label switched path while avoiding establishing a new label switched path (Column 8 Line 3-6); and a scheduler that forwards each received packet along the label switched path towards the egress router, wherein the egress router removes the label and forwards each packet (Column 3 Line 18-20). Goguen, however, does not teach explicitly a label

according to a forwarding equivalence class (FEC) that corresponds to the label, wherein the forwarding equivalence class (FEC) is based on a group of packets forwarded in a same class or manner and wherein the labeler examines the label of the received packet to identify data included in the received packet. Reeves teaches a label according to a forwarding equivalence class (FEC) that corresponds to the label, wherein the forwarding equivalence class (FEC) is based on a group of packets forwarded in a same class or manner and wherein the labeler examines the label of the received packet to identify data included in the received packet [0038]. It would have been obvious to one skilled in the art to modify Goguen to label according to a FEC as taught by Reeves in order to comply with MPLS standard [0057].

Regarding to claim 16, Goguen teaches the pathmaker 120 and reserver (label allocation module in Column 2 Line 3) operate independently from one another while maintaining a common association according to the label.

Regarding to claim 17, Reeves teaches a label information base 110 that stores a list of labels and a mapping of a relationship between each label 112g and forwarding equivalence class (FEC) 112.

Regarding to claim 20, Goguen teaches the reserver assists in using RSVP (Resource Reservation Protocol) to reserve resources along the label switched path for packets of the same flow (Column 2 Line 41 – Column 3 Line 5).

Regarding to claim 21, Goguen teaches the reserver assists in transmitting a message to reserve the resources along the label switched path, wherein the

message includes the label (Column 2 Line 41 – Column 3 Line 5).

Regarding to claim 22, Goguen teaches the label is a first label and the reserver assists in transmitting a message for reserving resource that includes a second label such that the message follows the label switched path but is discerned from packets containing the first label (Column 8 Line 41-47).

Regarding to claim 24, Goguen teaches the transceiver, labeler, pathmaker, reserver, and scheduler are enabled to operate as an ingress enhanced label switching router, an intermediate enhanced label switching router, and an egress enhanced label switching router (R's in Figure 2).

Allowable Subject Matter

3. Claim 1-11, 13, 14 and 25 are allowed.
4. Claim 19 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

5. Applicant's arguments filed 08/23/2007 have been fully considered but they are not persuasive. In response to page 15-18, the applicant argues that the prior arts in the record does not teach the pathmaker and the labeler as recited in the claim 15. Goguen teaches the pathmaker 120 for establishing LSPs (Column 1 Line 65-66) between routers of an enhanced MPLS (Column 5 Line 22). Reeves teaches the labeler for labeling

according to the FEC [0038]. Therefore, examiner contends that Goguen in view Reeves teaches every limitations in the claim 15.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

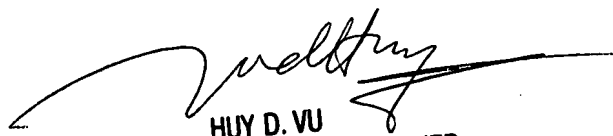
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clemence Han whose telephone number is (571) 272-3158. The examiner can normally be reached on Monday-Friday 9 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

C.V.
Clemence Han
Examiner
Art Unit 2616


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